

PROJECT DESCRIPTION
GENERAL

This project involves the installation of a traffic signal at the intersection of MD 155 (Level Road) at Bulle Rock Parkway in Harford County, Maryland. MD 155 is considered to run in an east/west direction.

PROJECT DESCRIPTION

The intersection is to operate in a NEMA three (3) phase, full-traffic-actuated mode. The MD 155 through movements will operate concurrently. The Bulle Rock Parkway movements will operate alone.

An eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, battery back-up, and video detection and (1) four-channel rack mounted time delay output loop detector amplifiers equipment housed in a base mounted cabinet are to be installed at this location.

III. SPECIAL NOTE:

The Contractor shall notify Mr. Robert Snyder of SHA at 410-787-7635 to arrange for the phone drop installation.

The Contractor is to provide Mr. Snyder with the nearest street number, zip code, and telephone number.

EQUIPMENT LIST

A. Equipment to be supplied by the administration.
None.

B. Equipment to be furnished and/or installed by the contractor.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	818	27 ft. steel mast arm pole with a 60 ft. mast arm.
1	EA	818	27 ft. steel twin mast arm pole with 50 ft. and 60 ft. mast arms.
1	EA	816	Standard S.H.A. traffic signal controller, base mounted cabinet, video detection interface, and one (4) four-channel loop detector amplifiers (Note: Controller and cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650).
6	EA	814	12 in. one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	---	Video Detection Camera and cable. (1 - 300 LF)
2	EA	813	16 in. x Var. D-3(1) (Dual-faced) sign with mast arm mounting hardware.
2	EA	813	16 in. x Var. D-3(2) sign for ground mounting.
1	EA	813	30 in. x 36 in. R 3-5(L) sign with mast arm mounting hardware.
1	EA	813	30 in. x 51 in. Shield Assembly with pole mounting hardware.
1	EA	813	48 in. x 75 in. Shield Assembly with pole mounting hardware.
1	EA	813	48 in. x 75 in. Shield Assembly for ground mounting.
2	EA	813	48 in. x 48 in. W 3-3 "NEW" sign for ground mounting.
2	EA	---	Non-invasive probe (set of 3) with 1000 ft. lead-in cable.
2	EA	806	20 ft. luminaire arm.
2	EA	806	250 W H.P.S. lamp and luminaire.
3	CY	205	Test pit excavation.
9	EA	811	Handhole.
350	LF	810	1-conductor electrical cable (No. 4 A.W.G.).
420	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
90	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
600	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
260	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
125	LF	805	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
880	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
135	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
220	LF	805	4 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
170	LF	805	4 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
10.5	CY	801	Concrete foundation for traffic signal equipment.
4	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
100	LF	549	24 in. wide HAPPTM - white for stop line.
98	LF	812	4 in. x 6 in. wood sign support.
Lump Sum	LS	---	Remove and dispose of existing traffic signal equipment, signs, and street light.

SPECIAL NOTES

PROJECT CONTACTS:

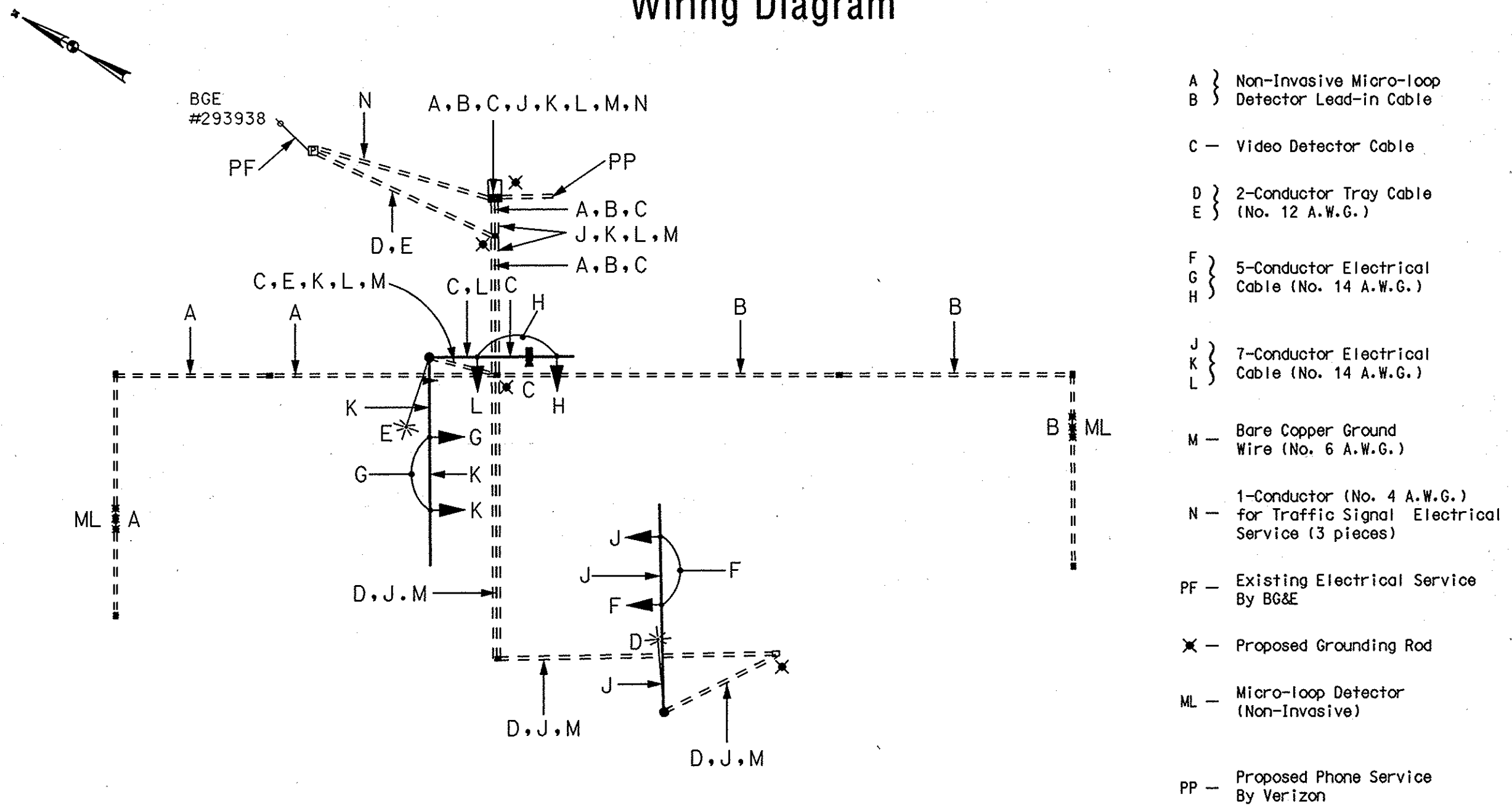
I. The following contact persons for this project are as follows:
Erin Kuhn, Assistant District Engineer - Traffic
Phone: (410)-321-2788
Jesse Free, Assistant District Engineer - Construction
Phone: (410)-321-2825
Steven Marczewski, Assistant District Engineer - Maintenance
Phone: (410)-321-2761
Michael Pasquale, Utility Engineer
Phone: (410)-321-2841
Edward Rodenhizer, Signal Operations
Phone: (410)-787-7652

The Power Company Representative is:
BGE New Business
7317 Parkway Drive, South
Hanover, Maryland 21076
Jason Wagner, Design Engineer
Phone: (410)-853-9041
WMS #1602561
Reference #R4861784065

Phase Chart

	1	2	3	4	5	6	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
PHASE 2 AND 6	G	G	G	G	R	R	←
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	→
PHASE 4	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	←

Wiring Diagram



These plans are approved for construction for a period 1 year from the date of approval. Should construction not begin within this time frame these plans shall be null and void without a review from the Traffic Engineering Design Division.



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 155 (Level Road) @ Bulle Rock Parkway

GENERAL INFORMATION PLAN

SCALE	N/A	DATE	July 19, 2007	CONTRACT NO.	BW998M82
DESIGNED BY	F. Brownley	COUNTY	Harford		
DRAWN BY	F. Brownley	LOGMILE	12015506.93		
CHECKED BY		TIMS NO.	1137		
FAP NO.	N/A	TOD NO.			
TS NO.	4588	DRAWING	- OF	SHEET NO.	2 OF 2